



Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct
ctggcctttgg ctctgcgcgc tggcgctgcg cctgcagcct gccctcccgc aaattgtcac
cgcaaattgtg cctcctgaag accaagatgg ctctggggac gactcagaca acttctctgg
ctcaggcaca ggtgctttgc cagatatgac tttgtcacgg cagacacctt ccacttggaa
ggatgtgtgg ctctgacac ctacacccac agctccagaa cccaccagca gggataaccga
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggaggagg agcccgtggc
ccacgtggaa gcagagcctg acttcactgc tcgggacaag gagaaggagg ccaccaccag
gcctaggagg accacacagc tcccagtcac ccaacaggcc tcaacagcag ccagagccac
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtgcaacctg gcctccacga
gaccttggct cccacagcac ccggccaacc tgaccatcag cctccaagtg tggaggatgg
aggcacttct gtcatcaaag aggttgtgga ggatgaaact accaatcagc ttcctgcagg
agagggctct ggagaacaag acttcacctt tgaaacatct ggggagaaca cagctgtggc
tggcgctcag cctgaccttc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga aggaa [SEQ. ID NO:1]

ACCESSION	M81785
LOCUS	RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION	Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION	M81785
NID	g207140
KEYWORDS	syndecan.
SOURCE	Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM	Rattus norvegicus Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae; Murinae; Rattus.
REFERENCE	1 (bases 1 to 2396)
AUTHORS	Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE	Molecular cloning and expression of two distinct cDNA-encoding heparan sulfate proteoglycan core proteins from a rat endothelial cell line
JOURNAL	J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

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ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gaggcgcggc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agataccccc ggagctccag ccgcgcggat cgcgcgctcc cgccgctctg
cccctaaact tctgccgtag ctccctttca agccagcgaa tttattcctt aaaaccagaa
actgaacctc ggcacgggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgc gaaaccaaca
agtgaagagg cgccgcgttc ccggggcgca gctgcgggag gcgggagcag gcgcaggagg
aggaagcgag cgcccccgag ccccgagccc gagtccccga gcctgagccg caatcgctgc
ggtactctgc tccggattcg tgtgcgcggg ctgcgccgag gctgggcagg aggcttcgtt
ttgccctggt tgcaagcagc ggctgggagc agccggtccc tggggaatat gcggcgcgcg
tggatcctgc tcaccttggg cttggtggcc tgcgtgtcgg cggagtcgag agcagagctg
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgg gagctgatga ggatgtagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tgttgactag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggaccagcc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttta acggacagaa
[SEQ ID NO:2]
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protein sequence:

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GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQ
IPPELQPRGSRAPAALPLNFCRSSLSQRIYSLKPETEPRHGKGVRRGAKPQQSKKSF
REQPSRSTNSVSGVQKPTSERAPRSRGAAAGGSRRRRRKRAPPSPEPESPSLSRNRC
GTLRLRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKMYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESPELTTTRPLPKILLT
SAAPKVETTTLNIQNKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS
LFKRTE [SEQ ID NO:3]
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reference:

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ACCESSION J0621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and
David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain
and evidence for multiple distinct core proteins at the cell
surface of human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)
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Fig 4: Synd-3 (N-Syndecan) extracellular domain

gccccgcgcgctgctgagccgtccttgccggcacgssgatgccccgcggagctgcggcgcc
tcgcggtgctgctgctgctgctcagcgccccgcgcagcgctggctcagccgtggcgcaatg
agaactacgagaggccggtggacctggagggctctggggatgatcatccctttggggacg
atgaactggatgacatctactcgggctccggctcaggctattttgagcaggagtcagggt
tggagacagcggtcagcctcaccacggacacgtccgtcccactgcccaccacgggtggccg
tgctgcctgtcaccttggtgcagcccatggcaacaccctttgagctgttccccacagagg
acacgtcccctgagcaaacaaccagcgtcttgtatatccccaagataacagaagcaccag
tgatccccagctggaaaacaaccaccgccagtaccactgccagtgactccccagtacca
cctccaccaccaccacggctgctaccaccaccacaaccaccaccaccatcagcacca
ctgtggccacctccaagcccaccactaccagagggttccctgccccctttgtcaccaagg
cagccaccaccggggccaccaccctggagacgcccaccacctccatccctgaaaccagtg
tcctgacagagggtgaccacatcacggcttgctcccctccagcacagccaagccgagggtccc
tgccaaaaccaagcacttccaggactgcagaaccacggaaaaaagcactgccttgctt
ccagccccaccacgctgccaccacacagaagccccccagggtggagccaggggagttgacga
cagtcctcgacagtgacctggaagtcccaaccagtagtgccccagcggggacttcgaga
tccaggaggaggaggagacaactcgtcctgagctgggcaatgaggtggtggcagtggtga
caccaccagcagcaccggggctgggcaagaatgcagagccggggctcatcgacaacacaa
tagagtcgggcagctcggctgctcagctccccagaaaaacatcctggagaggaaggaa
[SEQ ID NO:4]

Reference:

ACCESSION	MB4910
LOCUS	CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION	Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION	MB4910
NID	g1017461
KEYWORDS	syndecan-3 proteoglycan.
SOURCE	Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM	Gallus gallus Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; Vertebrata; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
REFERENCE	1 (bases 1 to 1372)
AUTHORS	Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE	Syndecan 3: a member of the syndecan family of membrane-intercalated proteoglycans that is expressed in high amounts at the onset of chicken limb cartilage differentiation
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE	92228766
REFERENCE	2 (bases 1 to 1372)
AUTHORS	Gould,S.E., Upholt,W.B, and Kosher,R.A.
TITLE	Characterization of chicken syndecan-3 as a heparan sulfate proteoglycan and its expression during embryogenesis
JOURNAL	Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

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atggc gcctgtctgc ctgtttgcgc cgctgctgct gttgctcctc
ggaggtttcc ccgtcgcccc aggcgagtcg attcgagaga ctgaggtcat agacccccag
gacctcctgg aaggcagata cttctctgga gccctcccgg acgatgaaga cgctgggggc
cttgagcagg actctgactt tgagctgtcg ggttccggag atctagatga cacggaggag
cccaggacct tccctgaggt gatttcaccc ttggtgccac tagataacca catccccgag
aatgcccagc ctggcatccg tgtcccctca gagcccaagg aactggaaga gaatgaggtc
attcccaaaa gggccccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg
tccagcactt cccagggcag caacattttt gaaagaactg ag [SEQ ID NO:5]
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Reference:

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ACCESSION  M81786
LOCUS      RATRYUDOCA      2452 bp      mRNA      ROD      16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION  M81786
NID        g206822
KEYWORDS   ryudocan.
SOURCE     Rattus norvegicus Epididymal fat pad cDNA to mRNA.
           ORGANISM Rattus norvegicus Eukaryotae: mitochondrial eukaryotes: Metazoa:
Chordata: Vertebrata: Eutheria; Rodentia; Sciurognathi; Myomorpha:
Muridae: Murinae; Rattus.
REFERENCE  1 (bases 1 to 2452)
AUTHORS    Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE      Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL    J. Biol. Chem. 267, 4870-4877 (1992)
```

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag
ctccggggccc gaggctggtg gctgctgtgc gcggccgccc cgctagtcgc ctgcgcccgc
ggggaccccc ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttttagcc tgagcgacgt gcccccgga gagatctcgg gagagcacct gcggatctgc
ccccagggct acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgccagc agccgtgccc tgcaggctac actggccacc
cagctgcatg gcatcgatga ccacttccag cgctgtctga atgactcgga gcgtacactg
caggatgctt ttcccggggc ctttggggac ctgtacacgc agaactctcg ggccttccgg
gacctgtatg ctgagctgcg tctctactac cgagggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccc atgactatct ggactgcctg ggcaagcagg cagaggcact gcggccgttt
ggggatgccc ctcgagaact gcgcctgagg gccacccgtg cttttgtggc ggcacgatcc
tttgtgcagg gcctgggtgt ggccagttag gtagtccgaa aggtggccca gggtcctctg
gccccagaat gttctcgggc tgtcatgaag ttggtctact gtgcccattg ccggggagtc
cctggtgccc ggccctgtcc cgactattgc cgaaatgtgc tcaaaggctg ccttgccaac
cagggccgacc tggatgccga gtggaggaa ctcctggact ccatggtgct catcactgac
aagttctggg gcccgtcggg tgcggagaat gtcattggca gtgtgcatat gtggctggcg
gaggccatca acgccctcca ggacaacaag gacacactca cagctaaggt catccagggc
tgcggaaacc ccaaggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctggc ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccagggac actgtgtagt
gagaagatgg ccatgagtcc tgccagcgat gaccgctgct ggaatgggat ttccaagggc
cggtagctac ctgaggtgat gggtagtggg ctggccaacc agatcaacaa ccctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gtttacgtgg cgcctacggt ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtggc ggatgccagc atgacgctg tggccggagg
gtcagcaaga agagctccag ctcccggacc cccttgaccc atgccctccc cggcttgtca
gaacaggagg gacagaagac ctgc [SEQ ID NO:6]

Protein sequence:

MELRARGWLLCAAALVACARGDPASKSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRICPQGYTCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDFHQRLLNDSERTLQDAFPGAFGDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFLKQLHPQLLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAFV
AARSFVQGLGVASDVVRKVAQVPLAPECSRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPSGAENVIGSVHMWLAEAINALQDNKDT
LTAKVIQCGNPKVNPVPHGSGPEEKRRRGKLALQEKSTGTLEKLVSEAKAQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGSGGGCPDDACGRRVSKKSS
SSRTPLTHALPGLSEQEGQKTS [SEQ ID NO:7]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate
proteoglycan, in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig. 7: Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggaggtgtc attgctggag gcctgggtggg
cctcatcttt gctgtgtgcc tgggtggcttt catgctatac [SEQ ID NO:8]

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig 8: Syndecan-2 (human) transmembrane domain (J 04621):

gtcctagcag ctgtcattgc tgggtggagtt attggctttc tctttgcaat ttttcttatac
ctgctgttgg tg [SEQ ID NO:9]

protein sequence:

VLA AVIAGGVIGFLFAIFLILLV [SEQ ID NO:10]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and
David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain
and evidence for multiple distinct core proteins at the cell
surface of human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9: Synd-3 (N-Syndecan chicken) Transmembrane domain

gtgttgatagctgtgattgtcggcggtgtgggtgggagccctctttgctgccttccttggtca
tgctgctcatctac [SEQ ID NO:11]

Reference:

ACCESSION MB4910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION MB4910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA
to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of membrane-
intercalated proteoglycans that is expressed in high amounts at
the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10: Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtgggcggcg tagtgggcat cctcttcgcc gttttcctga
tcctgctgct ggtgtac [SEQ ID NO:12]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 11: Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actcgcccag agcctcacta cttctttctg
ctcttcctgt tcaccttggt ccttgctgca gccaggccca ggtggcggta actgccc
[SEQ ID NO:13]

protein sequence:

ATRPEPHYFFLLFLFTLVLAAARPRWR [SEQ ID NO:14]

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate
proteoglycan, in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12: Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacgactgctgacgccggcttctacctctgcgtggccaccagccctgcaggcactgcc
[SEQ ID NO:15]

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID g184426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen, I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13: Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc
cccaccaacg agttctacgc atga [SEQ ID NO:16]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)